

Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Complete if Known

| | |
|------------------------|-------------------------------------|
| Application Number | 10/586,080 |
| Filing Date | July 13, 2006 |
| First Named Inventor | Mervi Ahlroth |
| Art Unit | 1636 1632 |
| Examiner Name | Not yet assigned J. Hama |
| Attorney Docket Number | GJE-7664 |

Sheet 1 of 2

U.S. PATENT DOCUMENTS

| Examiner Initials* | Cite No. ¹ | Document Number Number - Kind Code ² (if known) | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|--------------------|-----------------------|---|--------------------------------|--|---|
| | U1 | US- | | | |
| | U2 | US- | | | |
| | U3 | US- | | | |
| | U4 | US- | | | |
| | U5 | US- | | | |
| | U6 | US- | | | |
| | U7 | US- | | | |
| | U8 | US- | | | |
| | U9 | US- | | | |
| | U10 | US- | | | |
| | U11 | US- | | | |
| | U12 | US- | | | |
| | U13 | US- | | | |
| | U14 | US- | | | |
| | U15 | US- | | | |
| | U16 | US- | | | |

FOREIGN PATENT DOCUMENTS

| Examiner Initials* | Cite No. ¹ | Foreign Patent Document Country Code ³ - Number ⁴ - Kind Code ⁵ (if known) | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear | † |
|--------------------|-----------------------|--|--------------------------------|--|---|---|
| JH/ | F1 | WO 95/32225 A1 | 11-30-1995 | The Salk Institute for Biological Studies | All | |
| V | F2 | WO 96/35777 A1 | 11-14-1996 | Fox Chase Cancer Center | All | |
| | F3 | | | | | |
| | F4 | | | | | |
| | F5 | | | | | |
| | F6 | | | | | |

| | |
|--------------------|-----------------|
| Examiner Signature | Date Considered |
|--------------------|-----------------|

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ² Applicant's unique citation designation number (optional). ³ See Kind Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ⁴ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁵ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁶ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁷ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Complete If Known

| | |
|------------------------|------------------|
| Application Number | 10/586,080 |
| Filing Date | July 13, 2006 |
| First Named Inventor | Mervi Ahlroth |
| Art Unit | 1638 |
| Examiner Name | Not yet assigned |
| Attorney Docket Number | GJE-7664 |

| | | | |
|-------|---|----|---|
| Sheet | 2 | of | 2 |
|-------|---|----|---|

NON PATENT LITERATURE DOCUMENTS

| Examiner Initials* | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article, (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T ² |
|--------------------|-----------------------|--|----------------|
| /JH/ ↓ | R1 | BUSHMAN, F. <i>et al.</i> , "Tethering Human Immunodeficiency Virus Type 1 Preintegration Complexes to Target DNA Promotes Integration at Nearby Sites," <i>Journal of Virology</i> , January 1997, pp. 458-464, Vol. 7, No. 1. | |
| | R2 | KATZ, R. <i>et al.</i> , "Targeting of Retroviral Integrase by Fusion to a Heterologous DNA Binding Domain: <i>In Vitro</i> Activities and Incorporation of a Fusion Protein into Viral Particles," <i>Virology</i> , 1996, pp. 178-190, Vol. 217, No. 1. | |
| | R3 | HOLMES-SON, M. <i>et al.</i> , "Integrase-LexA Fusion Proteins Incorporated into Human Immunodeficiency Virus Type 1 That Contains a Catalytically Inactive Integrase Gene Are Functional To Mediate Integration," <i>Journal of Virology</i> , December 2000, pp. 11548-11556, Vol. 74, No. 24. | |
| | R4 | HOLMES-SON, M. <i>et al.</i> , "Molecular Genetics and Target Site Specificity of Retroviral Integration," <i>Advances in Genetics</i> , 2001, pp. 33-69, Vol. 43. | |
| | R5 | MANNINO, S. <i>et al.</i> , "Chemical Mechanism of DNA Cleavage by the Homing Endonuclease I-Ppol," <i>Biochemistry</i> , 1999, pp. 16178-16186, Vol. 38, No. 49. | |
| | R6 | | |
| | R7 | | |
| | R8 | | |
| | R9 | | |
| | R10 | | |

| | | | |
|--------------------|---------------|-----------------|------------|
| Examiner Signature | /Joanne Hama/ | Date Considered | 06/28/2010 |
|--------------------|---------------|-----------------|------------|

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.